10/4 Characterization of alone 7- Dericed HSTNAI . Binding to THE ( onhibition by H398 x-STUPEZ Ab)

at Riginal

H398: We went to further characterize the hidogical monse (mo Ab) actually of Clone 1- derived hSTNIFEI. Namely, We went to determine if a neutralizing Ab to STNFRI, H398 (BioSource), Can inhibit the binding X-NTUPRI unt also relognizes the of Clone 7-STUFFET to TUF. soluble fragment Cat # AHRBOIT assay Jost # 10010-015 1) Coat plate with augme of Chemican Telombinant hTNF-a. Block plate W/ 2% BSA. reidralizing 2) Preinculate Clone 7 periplesen (reat, 1/2, 07 1/4) Dr the purisied lukaryotic protein (fraction 3 - pgs 87-89) with 103 Bl mores (at 8 or 16 ug/ne) of #348 (at 0.501/19/ne) \* dilutions o phiplesm made in lingger P. for 30 min. in a 30°C 450 hath. 40 welevent N418 06 spiked with the

> 4) PNpp Onculation = 15 min. The concentration of periplason or antillady was held constant while the opposite variable changed.

## Sample Seginitions:

add to the plate

NSTUFFEE - (B) Ab.

(1) TNF + preinculated purplesm or fraction 3 + goat & hSTNIREI-B) Ab.

contentration 3) Detect the Captured STRIFEI with 2 ug/rel goat a

- (2) THE WITH 10381, #398, OT NAIS alone (no peripleon) + grat ~ hstrer- B) Ab.
- Trus + peripleson or fraction 3 NOT prevenuented with any Ab + goat & hstrate B Ab.
- (F) THE + goat & hstriffe I B) Ab ( no peripleon, prenculated of otherwise). \* Received 0.196 88A 1985/ Sween with.

\* 4B-E would have been a duplicate of 1B-E.

'PCI Ab) JUMAS . (ID3 EI) (STUFE) 16-6 peripies M neat  ${f B}$ 1.1 リa C ′/4 D B8A. fraction  ${f E}$ PGS 87-89) S 51 / 119/111) N418 16 1/nl Raw Data Report Dual Wavelength 0.119 0.109 0.112 0.108 0.105 0.094 0.105 0.788 0.360 0.6630.510 0.107 0.8750.401 0.331 0.301 0.103 0.3990.373 0.208 \* Should have 0.1990.194 0.178 0.109 0.219 0.216 0.154 diluted gractim3-\*.\*\*\* 0.095 previous ELISA didn't list the dilution (pg 97), Absorbance Report Dual Wavelength but previous estimates were Mean. 0.119 Std.Dev. 0.000 + (mc 0.000 -0.010 -0.007 -0.011 -0.014 -0.025 -0.014 0.549 0.391 -0.012 0.756 0.669 0:241 0.832 0.282 0.212 0.182 -0.011 0.280 0.254 0.080 0.075 0.059 -0.010 0.100 0.097 0.035 \*.\*\*\* \*.\*\*\* -0.024 \*.\*\*\* 2.250 1.130 Summary of Data: ncullated Starting A405 (NO A6) en ustal. 5.669 B. 832 neat 6.282 0.280 1.254 1/2 6.212 0.182

114

0.080 \* There appears to be inhibition of Clone 7 - derived STNPEI by #398, but not much by D3BI which we previously thought was reutralizing. The irrelevent Ab Contral, N418, however, man be non-specifically hearting with the peripasm.

0.059

1.075

8

6.089

0.035

0.097

0.100

10/10/99

Characterization of Clone 7- derived himself. in minder 10/10 10 . THE - Inhibition ley a TIMI 11.

In addition to the assay done on 10/4 (py MM) with real a neutralising &-STNFRI Alo inhibited the bunding of Olone? STUFFEI to THE, We want ! demonstrate that antibodies to not inhibit the binding of Obne 1 STMERT to TRIF. In Conjunction, these data support the Contention that the Clone 1 STRIFET is folded properly and, Therefore, will beind to the active site of these TRIF. 800 molar hara

ussup I. Romo A, B, + C

beat with Chemican TNF at augme - Block in 2010 BS mouse (numerous) Add a The Ab at 0, 1, 2, or 4 ug/me (All Mary a clone B.

add STATE Clither: the clone 7 version purified on the otrep - tag Column on 1011 (per pg 98) (these whe preduced on 9/10) > used fraction 3 deluted 1:2 in lingues P; or the enterpoted bersion made by Hela Cello and purified on the met appenity Column - used fraction 4= 254 ng/mes outlined uses deluted to 20 ng/me).

add goat a nstruker-B at augine

add KPL SA-AP (at 1:1000) PNPP inculation = 10 min.

I ROWS ALE

- coat w/ TNF at 2 ug/me - Block

- Add the otrep- tag, prokeryotic STUFFEI (1/2 as discritical\_

- Add a- THE No at 0,1,2,01 4 mg/me

- add goat a mouse Ig G, A, & m-AD (KA) at augine - pupp = 5 min.

:k=0.519

Detc=0.189

auk= &<del>519</del>

	υ 1	× - 71	uf Al	lusjrst 4 4
pirthid snep #yd perawric stuffe	alone A	(3)	(3)	(3)
1/2 B	(2)	0	1	0
STUFFE (1/10)	Q	0	0	(1)
D	gut a maxx T	(3)	(3)	(3)
purified stripted F. pricer strice STNIPE	(ق	0	0	Œ

- 1) all heagents
- 2 TNF, STNFR, NO X-TNFAL,
- 3) TNF, ND STUFE, ~-TNF Ab,
- 1 TNF, UD STNAR, NO X-THEAD,

and cl

301 body 1, BI see the next signals, with intreasing x-TNF No, this signal should drap.

(B2, B3, + B4 and L2, C3, x C4 respectively)

301 dossay 2, D2, D3, and D4 represent maximum binding. A reduction in these signals when our STNIFKI (clone 7) is added suggests that it brinds to the acture site of the and prevents the x-TNF Hs from bunding

There is a reduction in  $\alpha$ -rhit Ab lunding

Onclusion.
The Clone ? - derived 15THPET is properly folded and biologically actue.